

WHAT IS CLAIMED IS:

1. A suction device comprising:

a) a suction cup;

5 b) a pulling bar, the pulling bar comprising:

a first end coupled to the suction cup; and
an opposed second end;

c) a cover having a spiral guiding ring, the spiral
guiding ring having a flange;

10 d) a spiral guiding cap having a rib, the spiral
guiding cap being rotatably coupled to the spiral-guiding ring
so that the flange moves along the rib when the spiral guiding
cap is rotated; and

15 e) a locking cap coupled to the second end of the
pulling bar, the locking cap having a head positionable against
the spiral guiding cap; and

wherein the spiral guiding cap is turned less than 360
degrees to reach a fully engaged condition.

20 2. The apparatus of claim 1 wherein:

the spiral guiding cap further comprises a detent; and
upon rotation of the spiral guiding cap, the detent engages
the flange to hold the spiral guiding cap in place.

25 3. The apparatus of claim 2 wherein:

the spiral guiding ring further comprises a step; and
the spiral guiding cap further comprises a tab;
wherein the step engages the tab to prevent rotation of the
spiral guiding cap beyond the fully engaged condition.

30 4. The apparatus of claim 1 wherein the spiral guiding

cap is turned less than 180 degrees to reach the fully engaged condition.

5. The apparatus of claim 1 wherein the spiral guiding cap is turned less than 90 degrees to reach the fully engaged condition.

10. 6. The apparatus of claim 1 wherein:
the pulling bar further comprises a male thread; and
the locking cap further comprises a female thread
engageable with the male thread of the pulling bar.

15. 7. The apparatus of claim 1 wherein the spiral guiding cap further comprises a lever.

8. The apparatus of claim 1 further comprising a connecting member coupled to the cover for hanging an article.

20. 9. The apparatus of claim 8 wherein the connecting member further comprises a hook.

25. 10. The apparatus of claim 1 wherein:
the pulling bar further comprises a female thread; and
the locking cap further comprises a male thread
engageable with the female thread of the pulling bar.

30. 11. The apparatus of claim 1 wherein:
the pulling bar further comprises a boss; and
the locking cap further comprises a detent engageable

with the boss of the pulling bar.

12. The apparatus of claim 11 wherein the spiral guiding cap further comprises a lever.

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13. The apparatus of claim 11 further comprising a connecting member coupled to the cover for hanging an article.

10 14. The apparatus of claim 13 wherein the connecting member further comprises a hook.

15 15. The apparatus of claim 1 wherein:

the spiral guiding ring of the cover comprises a plurality of flanges; and

15 the spiral guiding cap has a plurality of ribs, each rib being engageable against a separate flange.

20 16. The apparatus of claim 15 wherein the spiral guiding cap further comprises a lever.

25 17. A method of attaching an object to a flat surface, the method comprising:

obtaining an apparatus according to claim 1;

placing the apparatus against the flat surface; and

25 rotating the spiral guiding cap less than 360 degrees to stick the apparatus to the flat surface.

18. A suction device comprising:

a) a suction cup;

30 b) a pulling bar, the pulling bar comprising:

a first end coupled to the suction cup; and
an opposed second end;

and
c) a cover having a spiral guiding ring with a flange;

5 d) a spiral guiding and locking cap having a rib and a
step;

wherein the spiral guiding and locking cap is rotatably
coupled to the spiral-guiding ring so that the rib rides along
the flange when rotated until the flange engages the step;

10 wherein the spiral guiding and locking cap is rotatably
coupled to the second end of the pulling bar; and

wherein the spiral guiding and locking cap is turned less
than 360 degrees to reach a fully engaged condition.

15 19. The apparatus of claim 18 wherein:

the spiral guiding and locking cap further comprises a
detent; and
upon rotation of the spiral guiding and locking cap, the detent
engages the flange to hold the spiral guiding and locking cap in
20 place.

20. The apparatus of claim 19 wherein:

the spiral guiding ring further comprises a step;
the spiral guiding and locking cap further comprises a tab;

25 and

wherein the step engages the tab to prevent rotation of the
spiral guiding and locking cap beyond the fully engaged
condition.

30 21. The apparatus of claim 18 wherein the spiral guiding
and locking ring further comprises:

an exterior surface; and
a lever coupled to the exterior surface.